

EUROPEAN PATENT APPLICATION

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17.01.90 Bulletin 90/03

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⑤ **Method and device for improved restriction fragment length polymorphism analysis.**

⑤ Described and claimed are a method and device useful for the rapid detection and analysis of restriction fragment length probe hybridization patterns using fluorescing labels and light emission detection technology.

EP 88310729.4

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 7)
D,Y	TRENDS IN GENETICS, vol. 3, no. 8, August 1987, pages 217-221, Cambridge, UK; T. HELENTJARIS: "A genetic linkage map for maize based on RFLPs"	1	C12Q1/68
D,A	-----	7	
Y	EP - A - 233053 (APPLIED BIOSYSTEMS INC.) * pages 18-21; claims 1-12 *	1	
A	-----	2,3,5-7	
D,X	BIOTECHNIQUES, vol. 5, no. 4, 1987, pages 342-348; C. CONNELL et al.: "Automated DNA Sequence Analysis"	8-11	
D,A	-----	1-7	
D,A	ANALYTICAL CHEMISTRY, vol. 57, 1985, pages 1546-1552; J. C. GLUCKMAN et al.: "Miniature Fluorometric Photodiode Array Detection Systems for Capillary Chromatography"	8-11	TECHNICAL FIELDS SEARCHED (Int. Cl. 7)
X	EP - A - 0237362 (CETUS CORP.) * page 22, line 27 - page 25, line 25; page 33, line 33 - page 45, line 25; claims 1-10 *	12-23	C12Q1/00
X	EP - A - 0229701 (CETUS CORP.) * page 11, line 25 - page 15, line 25 *	12-15, 19	
D,X	EP - A - 0200362 (CETUS CORP.) * column 3, line 15 - column 4, line 45; column 26, line 9 - column 27, line 10; column 29, lines 22-26; column 40, line 10 - column 26; column 41, line 4 - column 42, line 29; column 49, line 1 - column 53, line 12; The present search report has been drawn up for all claims claims 1-10 *	12-23	
Place of search		Date of completion of the search	Examiner
BERLIN		06.09.1989	A. DE KOK
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	CHEMICAL ABSTRACTS, vol. 106, no. 17, 27 April 1987, page 172, column 1, abstract no. 132786c, Columbus, Ohio, USA; L.A. WRISCHNIK et al.: "Length mutations in human mitochondrial DNA: direct sequencing of enzymically amplified DNA" & Nucleic Acids Res. 1987, vol. 15, no. 2, pages 529-542	12-15, 18	
X	NATURE, vol. 327, 28 May 1987, pages 293-297, London, GB; J. L. BOS et al.: "Prevalence of ras gene mutations in human colorectal cancers" * page 293, column 2 *	12-15, 19	
P,X	NATURE, vol. 331, 4 February 1988, pages 461,462, London, GB; H. A. ERLICH et al.: "Specific DNA amplification" * the whole document *	12-23	TECHNICAL FIELDS SEARCHED (Int. Cl.)



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

☒ LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.

namely:

1. Claims: 1-11 : A method for rapid restriction fragment polymorphism analysis and apparatus therefore
2. Claims: 12-23 : A method for detecting variations in nucleic acid sequence

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: